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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-10-23-35** **Date: 21-08-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.
Customer's Reference	:	BBMP/EE/BTP/WO/253/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-08-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	_
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-10-23-35** **Date: 14-09-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.
Customer's Reference	:	BBMP/EE/BTP/WO/253/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-08-19
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-10-23-35** **Date: 21-08-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.
Customer's Reference	:	BBMP/EE/BTP/WO/253/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	16-08-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-10-23-35** **Date: 21-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.41	_
5	Bulk Density(Compacted) (Kg/l)	1.47	_
6	Water Absorption(%)	0.23	_

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-10-23-35** **Date: 20-08-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.
Customer Reference	:	BBMP/EE/BTP/WO/253/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-10-23-35** **Date: 20-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-10-23-35** **Date: 20-08-19**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 16-08-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-10-23-35** **Date: 20-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID : **CP-2019-10-23-35** **Date: 23-08-19**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-08-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 22-08-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-10-23-35**	**Date: 30-08-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.	
Agency	:	Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.	
Customer's Reference	:	BBMP/EE/BTP/WO/253/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	27-08-19	
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm	
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)	
Date of test	:	27-08-19	

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	399	203	202	16361	31.298	1912.9	1962.8	Not less than 1800Kg/m^3
2	398	202	202	16240	32.840	2022.2		
3	400	203	201	16321	31.881	1953.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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BBMP, Bangalore-97

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Lab ID : **CP-2019-10-23-35** **Date: 30-08-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	201	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	203	201	
3	403	200	202	
4	401	200	203	
5	403	200	203	
6	404	202	201	
7	403	202	201	
8	402	201	200	
9	401	202	199	
10	401	199	199	
11	402	200	202	
12	403	203	202	
13	403	200	202	
14	402	200	202	
15	404	201	201	
16	401	199	201	
17	403	203	202	
18	400	201	200	
19	403	203	199	
20	399	203	202	
Average of 20	**402**	**201**	**201**	

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BBMP, Bangalore - 97

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Lab ID : **CP-2019-10-23-35** **Date: 30-08-19**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	201	80296	406.6	5.1	5.2
2	401	203	81250	410.2	5.0	
3	403	200	80507	416.7	5.2	
4	401	200	80219	420.6	5.2	
5	403	200	80637	430.8	5.3	
6	404	202	81586	455.3	5.6	
7	403	202	81375	421.9	5.2	
8	402	201	80848	432.4	5.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-23-35** **Date: 31/08/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-19

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	24/08/2019	31/08/2019	151.97 X 149.03 X 151.16	22648	**8.879**	417.8	18.4	18.6
2	Column Concrete	M20	24/08/2019	31/08/2019	149.87 X 151.89 X 150.53	22763	**8.346**	416.8	18.3	
3	Column Concrete	M20	24/08/2019	31/08/2019	151.93 X 151.17 X 150.62	22967	**8.719**	435.0	18.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-23-35** **Date: 21/09/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-19

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	24/08/2019	21/09/2019	151.34 X 150.83 X 149.92	22827	**8.977**	527.7	23.1	23.2
2	Column Concrete	M20	24/08/2019	21/09/2019	150.72 X 151.70 X 151.38	22865	**8.923**	515.9	22.6	
3	Column Concrete	M20	24/08/2019	21/09/2019	150.93 X 149.28 X 151.11	22530	**8.677**	538.3	23.9	

Note:
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-23-35** **Date: 05/09/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-08-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	29/08/2019	05/09/2019	149.24 X 149.49 X 149.40	22310	**8.879**	405.4	18.2	18.5
2	Lintel Concrete	M20	29/08/2019	05/09/2019	150.03 X 150.27 X 150.22	22545	**8.346**	424.1	18.8	
3	Lintel Concrete	M20	29/08/2019	05/09/2019	149.43 X 151.44 X 151.37	22630	**8.719**	420.0	18.6	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-23-35** **Date: 26/09/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-08-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	29/08/2019	26/09/2019	150.93 X 151.76 X 150.34	22905	**8.977**	544.0	23.8	23.3
2	Lintel Concrete	M20	29/08/2019	26/09/2019	149.21 X 149.99 X 151.98	22381	**8.923**	511.3	22.8	
3	Lintel Concrete	M20	29/08/2019	26/09/2019	151.40 X 149.39 X 150.28	22617	**8.677**	527.8	23.3	

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Lab ID : **CP-2019-10-23-35** **Date: 05/09/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

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Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-08-19

Customer ID : Chajja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Chajja Concrete	M20	29/08/2019	05/09/2019	150.17 X 150.96 X 150.35	22669	**8.879**	412.5	18.2	18.1
2	Chajja Concrete	M20	29/08/2019	05/09/2019	149.21 X 151.17 X 150.80	22556	**8.346**	408.0	18.1	
3	Chajja Concrete	M20	29/08/2019	05/09/2019	151.44 X 151.78 X 150.75	22986	**8.719**	414.5	18.0	

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Lab ID : **CP-2019-10-23-35** **Date: 26/09/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

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Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

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Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-08-19

Customer ID : Chajja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Chajja Concrete	M20	29/08/2019	26/09/2019	149.55 X 151.76 X 150.49	22695	**8.977**	530.9	23.4	23.0
2	Chajja Concrete	M20	29/08/2019	26/09/2019	151.46 X 149.41 X 149.21	22630	**8.923**	502.1	22.2	
3	Chajja Concrete	M20	29/08/2019	26/09/2019	149.37 X 149.88 X 149.14	22387	**8.677**	523.9	23.4	

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Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-08-19

Customer ID : Chajja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Chajja Concrete	M20	29/08/2019	05/09/2019	149.96 X 151.06 X 149.49	22653	**8.879**	409.7	18.1	18.5
2	Chajja Concrete	M20	29/08/2019	05/09/2019	151.06 X 150.13 X 149.39	22678	**8.346**	427.1	18.8	
3	Chajja Concrete	M20	29/08/2019	05/09/2019	150.45 X 150.56 X 150.73	22652	**8.719**	422.8	18.7	

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Lab ID : **CP-2019-10-23-35** **Date: 26/09/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-08-19

Customer ID : Chajja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Chajja Concrete	M20	29/08/2019	26/09/2019	151.41 X 149.30 X 151.68	22605	**8.977**	540.8	23.9	23.3
2	Chajja Concrete	M20	29/08/2019	26/09/2019	150.83 X 151.44 X 151.74	22842	**8.923**	515.2	22.6	
3	Chajja Concrete	M20	29/08/2019	26/09/2019	150.37 X 150.69 X 150.27	22659	**8.677**	530.2	23.4	

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-23-35** **Date: 30/09/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-09-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	23/09/2019	30/09/2019	149.78 X 150.40 X 150.57	22527	**8.879**	407.9	18.1	18.3
2	Roof Concrete	M20	23/09/2019	30/09/2019	150.55 X 150.22 X 149.28	22616	**8.346**	407.8	18.0	
3	Roof Concrete	M20	23/09/2019	30/09/2019	149.73 X 151.23 X 150.17	22644	**8.719**	427.7	18.9	

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BBMP, Bangalore - 97

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-23-35** **Date: 21/10/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-09-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	23/09/2019	21/10/2019	151.04 X 149.32 X 150.27	22554	**8.977**	538.0	23.9	23.4
2	Roof Concrete	M20	23/09/2019	21/10/2019	150.64 X 149.79 X 150.78	22564	**8.923**	514.9	22.8	
3	Roof Concrete	M20	23/09/2019	21/10/2019	149.40 X 151.34 X 150.79	22612	**8.677**	528.7	23.4	

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-23-35** **Date: 30/09/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-09-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	23/09/2019	30/09/2019	151.12 X 150.75 X 151.00	22781	**8.879**	424.5	18.6	18.5
2	Roof Concrete	M20	23/09/2019	30/09/2019	150.96 X 149.71 X 150.69	22599	**8.346**	409.4	18.1	
3	Roof Concrete	M20	23/09/2019	30/09/2019	149.26 X 149.68 X 151.78	22342	**8.719**	421.6	18.9	

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Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-09-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	23/09/2019	21/10/2019	149.67 X 151.39 X 150.54	22659	**8.977**	539.9	23.8	23.4
2	Roof Concrete	M20	23/09/2019	21/10/2019	151.10 X 150.83 X 149.22	22790	**8.923**	520.3	22.8	
3	Roof Concrete	M20	23/09/2019	21/10/2019	149.58 X 149.86 X 149.75	22416	**8.677**	528.0	23.6	

Note:

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Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-09-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	23/09/2019	30/09/2019	149.61 X 150.50 X 150.04	22516	**8.879**	427.4	19.0	18.7
2	Roof Concrete	M20	23/09/2019	30/09/2019	149.44 X 151.87 X 149.59	22696	**8.346**	413.1	18.2	
3	Roof Concrete	M20	23/09/2019	30/09/2019	149.73 X 151.69 X 151.15	22713	**8.719**	430.3	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-23-35** **Date: 21/10/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-09-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	23/09/2019	21/10/2019	151.68 X 151.75 X 151.56	23018	**8.977**	537.2	23.3	23.0
2	Roof Concrete	M20	23/09/2019	21/10/2019	149.51 X 151.29 X 150.56	22619	**8.923**	498.4	22.0	
3	Roof Concrete	M20	23/09/2019	21/10/2019	150.10 X 150.74 X 150.27	22627	**8.677**	537.5	23.8	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-23-35** **Date: 22/10/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-09-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	24/09/2019	22/10/2019	151.39 X 149.60 X 151.86	22648	**8.977**	522.7	23.1	23.0
2	RCC	M20	24/09/2019	22/10/2019	151.76 X 150.70 X 149.22	22870	**8.923**	509.7	22.3	
3	RCC	M20	24/09/2019	22/10/2019	151.13 X 150.00 X 151.14	22670	**8.677**	532.4	23.5	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-23-35** **Date: 03/10/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-19

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	26/09/2019	03/10/2019	151.31 X 151.94 X 149.57	22991	**8.879**	413.9	18.0	18.4
2	RMC	M20	26/09/2019	03/10/2019	150.90 X 150.80 X 151.40	22757	**8.346**	432.1	19.0	
3	RMC	M20	26/09/2019	03/10/2019	151.54 X 149.38 X 151.89	22637	**8.719**	411.6	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-23-35** **Date: 24/10/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Yoga Centre at First Floor Library Building at HMT Layout 1st Block to Ward no 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560 058.

Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-19

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	26/09/2019	24/10/2019	149.44 X 149.62 X 149.37	22359	**8.977**	532.8	23.8	23.0
2	RMC	M20	26/09/2019	24/10/2019	150.40 X 151.68 X 149.83	22812	**8.923**	504.7	22.1	
3	RMC	M20	26/09/2019	24/10/2019	150.15 X 149.88 X 151.81	22503	**8.677**	518.7	23.0	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

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Customer's Reference : BBMP/EE/BTP/WO/253/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-19

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	26/09/2019	03/10/2019	151.71 X 150.07 X 151.77	22767	**8.879**	420.3	18.5	18.5
2	RMC	M20	26/09/2019	03/10/2019	150.22 X 151.17 X 151.12	22708	**8.346**	418.3	18.4	
3	RMC	M20	26/09/2019	03/10/2019	151.33 X 150.54 X 149.11	22781	**8.719**	423.9	18.6	

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Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-23-35** **Date: 24/10/2019**

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Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-19

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	26/09/2019	24/10/2019	149.31 X 151.95 X 149.00	22687	**8.977**	535.2	23.6	23.1
2	RMC	M20	26/09/2019	24/10/2019	150.64 X 149.53 X 151.28	22526	**8.923**	506.1	22.5	
3	RMC	M20	26/09/2019	24/10/2019	149.32 X 149.86 X 150.20	22376	**8.677**	518.5	23.2	

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